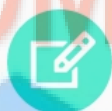
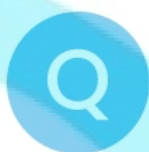


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## QUIZZES

### Practice Test-1(Aldehydes and Ketones)



10 Questions



7 min

#### Topics

Nomenclature and structure of aldehydes and ketones., Preparation of aldehydes and ketones, Reactivity of aldehydes and ketones and their comparison

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 59



1/10



7 min



Hint

Q : Ketones are prepared by the oxidation of:

A

Primary alcohols

B

Tertiary alcohols

C

Secondary alcohols

D

All of these

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 56



2/10



7 min



Hint

Q : The oxidation of iso-propyl alcohol in the presence of acidified  $K_2Cr_2O_7$  gives

A

Propanal

B

Propanone

C

Propane

D

Butanone

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 54



3/10



7 min



Hint

Q : 2-Methyl-2-propanol is an example of

A

Primary alcohol

B

Secondary alcohol

C

Tertiary alcohol

D

Dihydric alcohol

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 52



4/10



7 min



Hint

Q : Crotonaldehyde is an  $\alpha, \beta$ -unsaturated aldehyde formed from an aldol. The aldehyde which is the starting material in this reaction is

A

AcetalEthanal

B

Lactic acidMethanal

C

AldolPropanal

D

CyanohydrinButanal

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 50



5/10



7 min



Hint

Q : Acetaldehyde when treated with "HCN" and followed by acidic hydrolysis gives

A

Acetal

B

Lactic acid

C

Aldol

D

Cyanohydrin

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 48



6/10



7 min



Hint

Q :

Hydrogen cyanide adds to aldehyde and ketones to form cyanohydrin the reaction is carried out by adding slowly a mineral acid to an aqueous solution of sodium cyanide. The acid generates HCN from sodium cyanide in situ which means

A

Before reaction

B

After reaction

C

During reaction

D

At any time

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 46



7/10



7 min



Hint

Q :

Methyl ketones are usually characterized by

A

Tollen's tests

B

Lucas test

C

Iodoform test

D

Fehling solution test

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7



06 : 43



8/10



7 min



Hint

Q : Which compound gives positive silver mirror test?

A

Propanone

B

Propanol

C

Propanal

D

Propanoic acid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 40



9/10



7 min



Hint

Q :

Acetophenone is also called

A

Diphenyl ketone

B

Dimethyl ketone

C

Ethyl methyl ketone

D

Methyl phenyl ketone

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 38



10/10



7 min



Hint

Q :

Among the following, \_\_\_\_\_ is NOT a structural derivative of water



Alcohols



Phenols



Ethers



Aldehydes

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

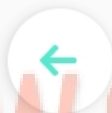
6

7

8

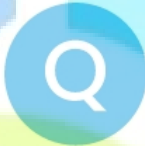
9

10



## QUIZ RESULT

Practice Test-1(Aldehydes and Ketones)



10



7 min



01-May-2021



0 sec



0/10



0.0%

SAEED MDCAT

Result Detail

SAEED MDCAT TEAM



SAEEDMDCAT





## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



1/10

Q : Ketones are prepared by the oxidation of:

A

Primary alcohols

B

Tertiary alcohols

C

Secondary alcohols

D

All of these

# SAEED MDCAT

## SAEED MDCAT TEAM



## SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



2/10

Q : The oxidation of iso-propyl alcohol in the presence of acidified  $K_2Cr_2O_7$  gives

A

Propanal

B

Propanone

C

Propane

D

Butanone

# SAEED MDCAT

## SAEED MDCAT TEAM



## SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



3/10

Q : 2-Methyl-2-propanol is an example of

A

Primary alcohol

B

Secondary alcohol

C

Tertiary alcohol

D

Dihydric alcohol

# SAEED MDCAT

## SAEED MDCAT TEAM



## SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



4/10

Q : Crotonaldehyde is an  $\alpha, \beta$ -unsaturated aldehyde formed from an aldol. The aldehyde which is the starting material in this reaction is

A

AcetalEthanal

B

Lactic acidMethanal

C

AldolPropanal

D

CyanohydrinButanal

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7





## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



5/10

Q : Acetaldehyde when treated with "HCN" and followed by acidic hydrolysis gives

A

Acetal

B

Lactic acid

C

Aldol

D

Cyanohydrin

# SAEED MDCAT

## SAEED MDCAT TEAM



## SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



6/10

Q :

Hydrogen cyanide adds to aldehyde and ketones to form cyanohydrin the reaction is carried out by adding slowly a mineral acid to an aqueous solution of sodium cyanide. The acid generates HCN from sodium cyanide in situ which means

A

Before reaction

B

After reaction

C

During reaction

D

At any time

Explanation



SAEEDMDCAT

Situ mean during reaction

1

2

3

4

5

6

7



## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



7/10

Q :

Methyl ketones are usually characterized by

A

Tollen's tests

B

Lucas test

C

Iodoform test

D

Fehling solution test

Explanation

SAEED MDCAT TEAM

$\alpha$ -methyl ketones gives iodoform reaction.

1

2

3

4

5

6

7



## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



8/10

Q : Which compound gives positive silver mirror test?

A

Propanone

B

Propanol

C

Propanal

D

Propanoic acid

Explanation

Aldehyde gives silver mirror test.



SAEEDMDCAT

4

5

6

7

8

9

10



## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



9/10

Q :

Acetophenone is also called

A

Diphenyl ketone

B

Dimethyl ketone

C

Ethyl methyl ketone

D

Methyl phenyl ketone

4

5

6

7

8

9

10



## Practice Test-1(Aldehydes and Ketones)



Correct



Unattempted



Incorrect



10/10

Q :

Among the following, \_\_\_\_\_ is NOT a structural derivative of water

A

Alcohols

B

Phenols

C

Ethers

D

Aldehydes

Explanation



SAEEDMDCAT

$$\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{H}$$
 is not structure similar to water

4

5

6

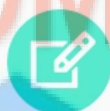
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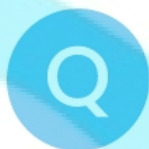
10

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## QUIZZES

### Practice Test-2(Aldehydes and Ketones)



10 Questions



7 min

#### Topics

Reactivity of aldehydes and ketones and their comparison, Reduction and Oxidation of aldehydes and ketones

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 58



1/10



7 min



Hint

Q : Cannizzaro's reaction is not given by

A

HCHO

B

$\text{C}_6\text{H}_5\text{CHO}$

C

$(\text{CH}_3)_3\text{C-CHO}$

D

$\text{CH}_3\text{CHO}$

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7



06 : 56



2/10



7 min



Hint

Q : The least reactive carbonyl compound towards nucleophilic addition reactions is

A

HCHO

B

CH<sub>3</sub>CHO

C

C<sub>2</sub>H<sub>5</sub>CHO

D

CH<sub>3</sub>COCH<sub>3</sub>

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 53



3/10



7 min



Hint

Q : In a base catalyzed reaction of carbonyl compounds the

A

Electrophilic character of the carbonyl carbon atom increases

B

Nucleophilic character of the reagent increases

C

Electrophilic character of the reagent increases

D

Nucleophilic character of the carbonyl carbon atom decreases

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 51



4/10



7 min



Hint

Q : When acetaldehyde reacts with hydrazine in presence of an acid the product formed is

A

Hydroxy acetaldehyde

B

Acetaldehyde hydrazone

C

Acetaldehyde oxime

D

Acetaldehyde phenyl hydrazone

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 49



5/10



7 min



Hint

Q : All of the following can produce ketone except

A

Secondary alcohol

B

Propyne

C

Calcium acetate

D

Primary alcohol

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 47



6/10



7 min



Hint

Q : Statement NOT true about reduction of acetone

A

With  $\text{NaBH}_4$  it follows nucleophilic addition

B

With  $\text{LiAlH}_4$  it gives propane

C

It gives to propanol with  $\text{NaBH}_4$

D

Can easily be reduced with  $\text{LiAlH}_4$

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 45



7/10



7 min



Hint

Q : The acid(s) produced by the oxidation of butanone is/are

A

Formic acid + propanoic acid

B

Formic acid + Acetic acid

C

Only propionic acid

D

Only acetic acid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 42



8/10



7 min



Hint

Q :

Acetophenone cannot give

A

Iodoform

B

Cannizaro's reaction

C

Aldol Condensation

D

Sodium nitroprusside test

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 39



9/10



7 min



Hint

Q :

Among the following, \_\_\_\_\_ is NOT a structural derivative of water

A

Alcohols

B

Phenols

C

Ethers

D

Aldehydes

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10



06 : 37



10/10



7 min



Hint

Q : Which pair of compounds cannot be distinguished by means of Tollen's test:

A

$\text{HCHO}$  &  $\text{CH}_3\text{COCH}_3$

B

$\text{HCHO}$  &  $\text{CH}_3\text{CHO}$

C

$\text{CH}_3\text{CHO}$  &  $\text{CH}_3\text{COCH}_3$

D

$\text{C}_6\text{H}_5\text{COCH}_3$  &  $\text{C}_6\text{H}_5\text{CHO}$

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

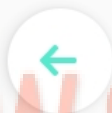
6

7

8

9

10



## QUIZ RESULT

Practice Test-2 (Aldehydes and Ketones)



10



7 min



01-May-2021



0 sec



0/10



0.0%

SAEED MDCAT

Result Detail

SAEED MDCAT TEAM



SAEEDMDCAT





## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



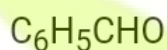
1/10

Q : Cannizzaro's reaction is not given by

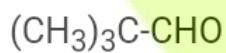
A



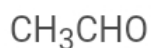
B



C



D



# SAEED MDCAT

## SAEED MDCAT TEAM



## SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



2/10

Q : The least reactive carbonyl compound towards nucleophilic addition reactions is

A

HCHO

B

CH<sub>3</sub>CHO

C

C<sub>2</sub>H<sub>5</sub>CHO

D

CH<sub>3</sub>COCH<sub>3</sub>

# SAEED MDCAT

## SAEED MDCAT TEAM



## SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



3/10

Q : In a base catalyzed reaction of carbonyl compounds the

A

Electrophilic character of the carbonyl carbon atom increases

B

Nucleophilic character of the reagent increases

C

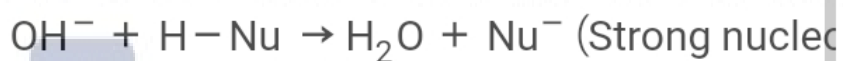
Electrophilic character of the reagent increases

D

Nucleophilic character of the carbonyl carbon atom decreases

Explanation

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



4/10

Q : When acetaldehyde reacts with hydrazine in presence of an acid the product formed is

A

Hydroxy acetaldehyde

B

Acetaldehyde hydrazone

C

Acetaldehyde oxime

D

Acetaldehyde phenyl hydrazone

Explanation

SAEED MDCAT TEAM

Name of reactant + hydrazone



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



5/10

Q : All of the following can produce ketone except

A

Secondary alcohol

B

Propyne

C

Calcium acetate

D

Primary alcohol

Explanation

Primary alcohol gives aldehyde



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



6/10

Q : Statement NOT true about reduction of acetone

A

With  $\text{NaBH}_4$  it follows nucleophilic addition

B

With  $\text{LiAlH}_4$  it gives propane

C

It gives to propanol with  $\text{NaBH}_4$

D

Can easily be reduced with  $\text{LiAlH}_4$

Explanation

$\text{LiAlH}_4$  reduces carboxylic acid



SAEEDMDCAT

1

2

3

4

5

6

7





## Practice Test-2 (Aldehydes and Ketones)

Correct

Unattempted



Incorrect



7/10

Q : The acid(s) produced by the oxidation of butanone is/are

A

Formic acid + propanoic acid

B

Formic acid + Acetic acid

C

Only propionic acid

D

Only acetic acid

Explanation

SAEED MDCAT TEAM



SAEEDMDCAT



split on oxidation  
with smaller chain

group remain attached

4

5

6

7

8

9

10



## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



8/10

Q:

Acetophenone cannot give

A

Iodoform

B

Cannizaro's reaction

C

Aldol Condensation

D

Sodium nitroprusside test

Explanation

Acetophenone has  $\alpha$ -hydrogen and  $\alpha$ -methyl group

4

5

6

7

8

9

10



## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



9/10

Q :

Among the following, \_\_\_\_\_ is NOT a structural derivative of water

A

Alcohols

B

Phenols

C

Ethers

D

Aldehydes

Explanation



is not structure similar to water

4

5

6

7

8

9

10



## Practice Test-2 (Aldehydes and Ketones)



Correct



Unattempted



Incorrect



10/10

Q : Which pair of compounds cannot be distinguished by means of Tollen's test:

A

$\text{HCHO}$  &  $\text{CH}_3\text{COCH}_3$

B

$\text{HCHO}$  &  $\text{CH}_3\text{CHO}$

C

$\text{CH}_3\text{CHO}$  &  $\text{CH}_3\text{COCH}_3$

D

$\text{C}_6\text{H}_5\text{COCH}_3$  &  $\text{C}_6\text{H}_5\text{CHO}$

Explanation

$\text{HCHO}$  and  $\text{CH}_3\text{CHO}$  both give silver mirror so cannot be distinguished.